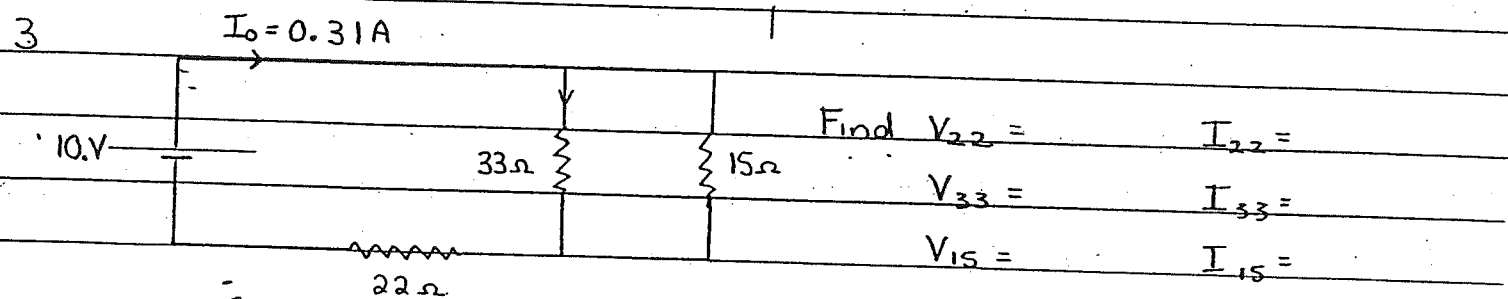
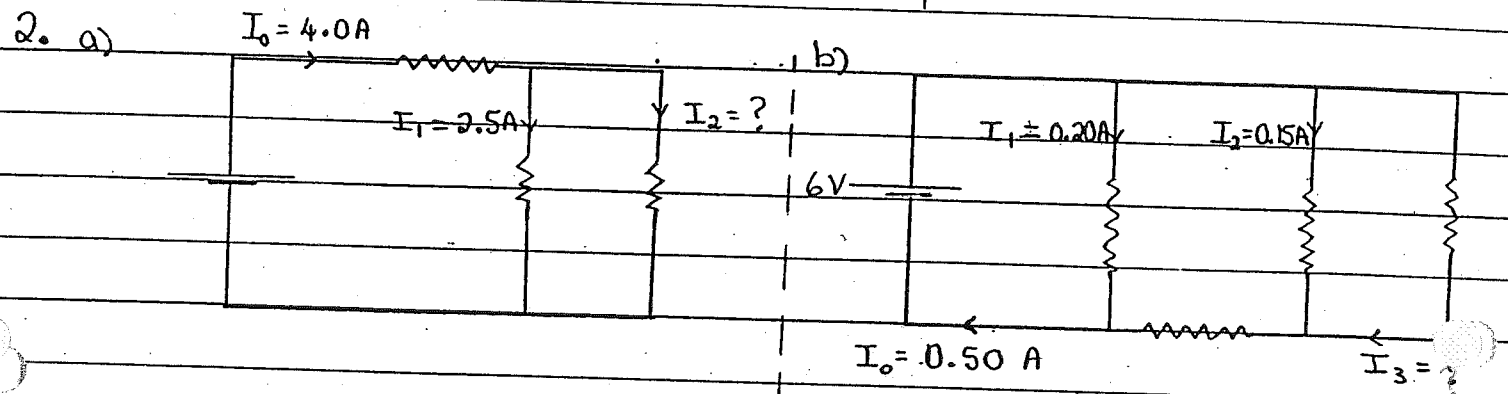
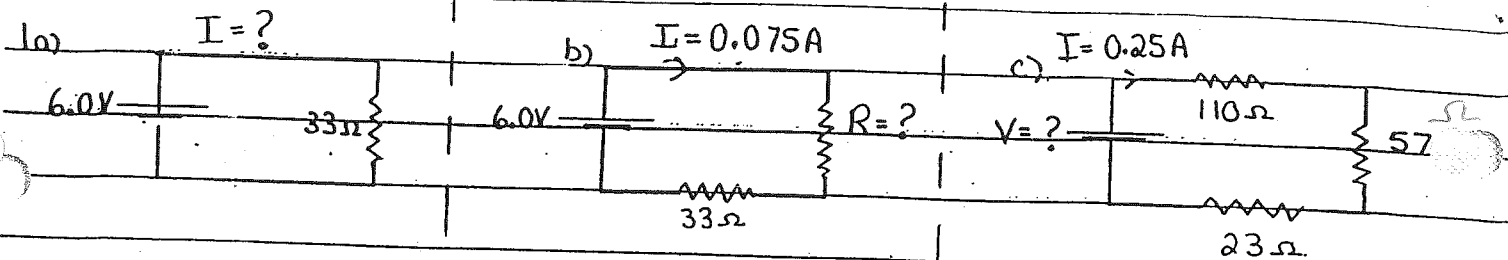


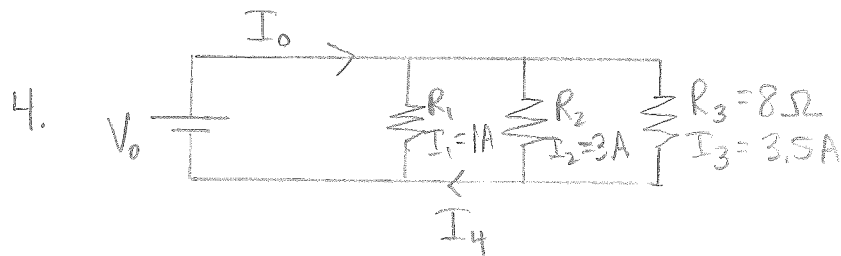
KIRCHHOFF'S LAWS

NAME: _____

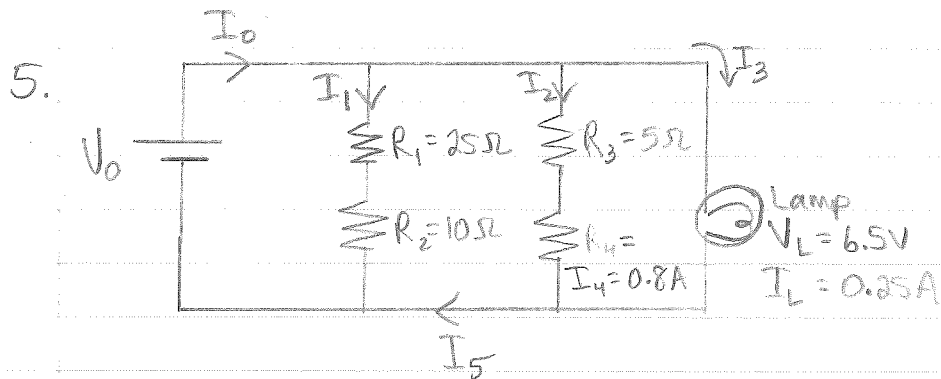


Answers:

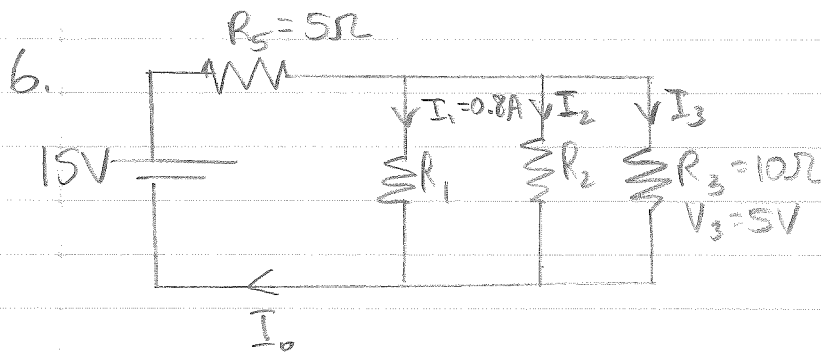
1a) 0.18A b) 47Ω c) 45V 47.5V 2. a) 1.5A b) 0.15A
 3. 6.8V, 0.31A, 3.2V, 0.09A, 3.2V, 0.21A



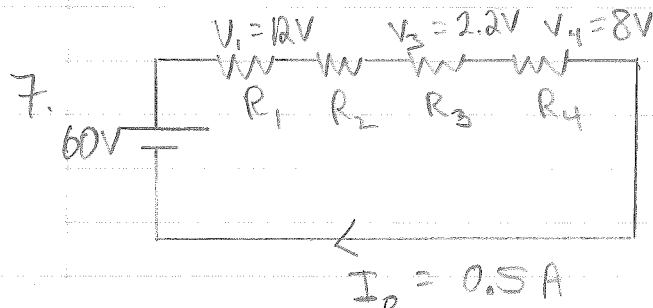
$$\begin{aligned} V_0 &= \underline{\hspace{2cm}} \\ I_0 &= \underline{\hspace{2cm}} \\ I_4 &= \underline{\hspace{2cm}} \\ R_2 &= \underline{\hspace{2cm}} \\ P_{R_3} &= \underline{\hspace{2cm}} \\ R_T &= \underline{\hspace{2cm}} \end{aligned}$$



$$\begin{aligned} R_L &= \underline{\hspace{2cm}} \\ V_0 &= \underline{\hspace{2cm}} \\ I_1 &= \underline{\hspace{2cm}} \\ I_5 &= \underline{\hspace{2cm}} \\ R_4 &= \underline{\hspace{2cm}} \\ R_T &= \underline{\hspace{2cm}} \\ P_{R_3} &= \underline{\hspace{2cm}} \\ P_L &= \underline{\hspace{2cm}} \end{aligned}$$



$$\begin{aligned} V_5 &= \underline{\hspace{2cm}} \\ I_0 &= \underline{\hspace{2cm}} \\ I_3 &= \underline{\hspace{2cm}} \\ I_2 &= \underline{\hspace{2cm}} \\ R_T &= \underline{\hspace{2cm}} \end{aligned}$$



$$\begin{aligned} V_2 &= \underline{\hspace{2cm}} \\ R_3 &= \underline{\hspace{2cm}} \\ R_T &= \underline{\hspace{2cm}} \\ P_{R_1} &= \underline{\hspace{2cm}} \\ P_T &= \underline{\hspace{2cm}} \end{aligned}$$

Answers:

4. 28V, 7.5A, 6.5A, 9.3Ω, 98W, 3.73Ω
 5. 26V, 6.5V, 0.186A, 1.05A, 3.125Ω, 5.26Ω, 3.2W, 1.625W
 6. 10V, 2.0A, 0.5A, 0.7A, 7.5Ω
 7. 18V, 44Ω, 120Ω, 4W, 30W